

**AMENDMENTS TO THE CLAIMS WITH MARKINGS TO SHOW CHANGES
MADE, AND LISTING OF ALL CLAIMS WITH PROPER IDENTIFIERS**

1. (Currently amended) ~~Direct~~ A direct electrical drive [[[1]]] for a wheel set [[[30]]] of a vehicle, ~~wherein the direct electrical drive (1) comprises~~ comprising a stator [[[7]]] and a rotor [[[3]]], with the rotor [[[3]]] being coupled mechanically with a wheel set shaft [[[11]]] of the wheel set, ~~characterized in that wherein~~ the rotor [[[3]]] has a cooling device.
2. (Currently amended) ~~Direct~~ The direct electrical drive [[[1]]] according to claim 1, ~~characterized in that wherein stator and the rotor are part of an electric machine, wherein the wheel set has two wheels mounted to the wheel set shaft, the said~~ wheel set shaft [[[11]]] is] being completely enveloped in an area between the wheels (31, 32) ~~of the wheel set (30) by means of an the electric machine (2) of the direct electrical drive (1).~~
3. (Currently amended) ~~Direct~~ The direct electrical drive [[[1]]] according to claim 1 ~~[[or 2]], characterized in that wherein~~ the cooling device has a cooling channel [[[22]]] formed inside the rotor, an air inlet [[[37]]] in communication with the cooling channel, and at least one fan (9), ~~whereby the cooling channels (22) extend inside connected to the rotor (3) in communication with the cooling channel.~~
4. (Currently amended) ~~Direct~~ The direct electrical drive [[[1]]] according to ~~one of the claims 1 to 3~~ claim 1, ~~characterized in that the direct electrical drive (1) and/or the cooling device has at least one~~ further comprising a means [[[33, 35]]] for protection of the wheel set shaft [[[11]]].

5. (Currently amended) ~~Direct~~ The direct electrical drive [(1)] according to ~~one of the claims 1 to 4~~ claim 1, characterized in that ~~wherein~~ the rotor [(3)] has at least one rotor hub [(19)] which is coupled mechanically to the wheel set shaft [(11)], with the rotor hub [(19)] being connected via at least one rotor web [(21)] with a support [(14)] for a rotor reaction part.
6. (Currently amended) ~~Direct~~ The direct electrical drive [(1)] according to ~~one of the claims 4 to 5~~ claim 3, characterized in that ~~the means (33, 35) further comprising a catch device~~ for protection of the wheel set shaft [(11)] is a said catch device (35), with the catch device (35) being in particular a being part of the fan (9) or a part of an air inlet (37).
7. (Currently amended) ~~Direct~~ The direct electrical drive [(1)] according to ~~one of the claims 4 to 5~~ claim 4, characterized in that ~~wherein~~ the means [(33, 35)] for protection of the wheel set shaft [(11)] is a dirt guide device [(33)].
8. (Currently amended) ~~Direct~~ The direct electrical drive [(1)] according to ~~one of the claims 3 to 7~~ claim 3, characterized in that ~~wherein the rotor includes a baffle wall disposed in~~ the air inlet (37) ~~has a baffle wall (40) for deflecting foreign matter~~.
9. (Currently amended) ~~Direct~~ The direct electrical drive [(1)] according to ~~one of the claims 1 to 8~~ claim 2, characterized in that ~~wherein~~ the wheel set shaft [(11)] has a continuous jacket between the wheels [(31, 32)] of the wheel set (30).

10. (Currently amended) ~~Direct~~ The direct electrical drive [[[1)]] according to ~~one of the claims 1 to 9~~ claim 1, characterized in that ~~wherein~~ the direct electrical drive (1) ~~has in the interior rotor~~ has a dirt-binding surface, ~~wherein the rotor or a cooling channel in particular has in the interior a dirt-binding surface.~~
11. (New) The direct electrical drive according to claim 3, further comprising a catch device for protection of the wheel set shaft, said catch device being part of the air inlet.
12. (New) The direct electrical drive according to claim 2, wherein the cooling channel has an inside wall formed with a dirt-binding surface.
13. (New) The direct electrical drive according to claim 10, wherein the surface is sticky.
14. (New) The direct electrical drive according to claim 13, wherein the surface is sticky.
15. (New) The direct electrical drive according to claim 8, wherein the baffle wall has a slanted configuration.